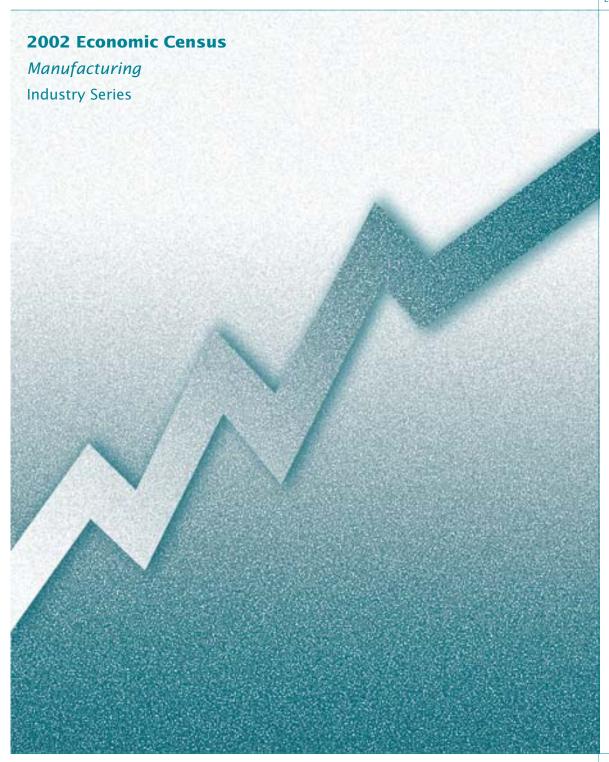
Cyclic Crude and Intermediate Manufacturing: 2002

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Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹		All	All em	ployees	Pro	duction work	kers		Total	shipments	Total capital expendi- tures (\$1,000)
	Com- panies ²		Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)		
325192, Cyclic crude and intermediate											
manufacturing	34	39	6 294	418 820	3 788	8 315	233 369	1 228 130	3 158 017	4 511 736	186 178
2001	N	N	6 913	453 620	4 069	9 014	253 454	1 398 816	4 294 221	5 877 475	310 712
2000	N	N	7 477	486 663	4 480	10 198	264 105	3 268 121	4 948 840	8 062 649	751 235
1999	N	N	8 280	504 356	5 056	11 625	293 089	2 600 471	3 791 915	6 364 287	399 111
1998	N	N	8 557	463 580	5 024	11 408	264 080	2 513 536	3 457 395	6 051 134	382 578
1997	36	51	8 641	467 132	5 153	11 442	257 924	2 807 384	4 053 054	6 861 138	768 610

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)		Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	materials	value of	tures
325192, Cyclic crude and intermediate manufacturing												
United States	- -	39 3	28 3	6 294 767	418 820 42 100	3 788 542	8 315 1 182	233 369 28 763	1 228 130 367 329	3 158 017 142 279		186 178 8 342

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
325192, Cyclic crude and intermediate manufacturing	
Companies ¹ number	34
All establishments ²	39 11 15 13
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	6 294 542 739 418 820 123 919
Production workers, average for year	3 788 4 003 3 974 3 607 3 563
Production worker hours	8 315 233 369
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	3 158 017 2 848 507 15 081 151 097 76 102 67 230
Quantity of electricity purchased for heat and power 1,000 kWh. Quantity of electricity generated less sold for heat and power 1,000 kWh.	1 971 076 S
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	4 511 736 3 789 123 701 827 20 786 D D D
Primary products specialization ratio percent Value of primary products shipments made in all industries \$1,000 Value of primary products shipments made in this industry \$1,000 Value of primary products shipments made in other industry \$1,000	84 7 188 232 3 789 123 3 399 109
Coverage ratiopercent.	53
Value added	1 228 130
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	440 522 299 790 15 579 125 153
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	335 530 177 679 12 101 145 750
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	3 440 848 186 178 18 119 168 059 4 524 12 426 151 109 163 575 3 463 451
Depreciation charges during year\$1,000.	204 250
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	14 353 5 799 8 554
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	260 652 95 63 942 3 583 25 451 2 463 3 224 3 596 8 612 26 308 11 091 115 282

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pr	oduction worke	rs		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
325192, Cyclic crude and intermediate manufacturing											
All establishments	_	39	6 294	418 820	3 788	8 315	233 369	1 228 130	3 158 017	4 511 736	186 178
1 to 4 employees. 5 to 9 employees. 10 to 19 employees 20 to 49 employees 50 to 99 employees 100 to 249 employees 250 to 499 employees	7 9 - -	7 2 2 9 6 2	a a b 301 435 e 2 447	D D 12 870 22 642 D 148 594	D D 202 284 D 1 444	D D 412 569 D 3 252	D D 7 777 12 523 D 81 068	D D 60 253 85 069 D 121 782	D D 72 681 132 551 D 1 372 915	D D 135 490 222 898 D 1 565 947	D D 4 752 6 692 D 125 460
250 to 499 employees 500 to 999 employees 1,000 to 2,499 employees 2,500 employees or more	- - -	4	2 447 2 593 - -	203 258	1 444 1 487 - -	3 252 3 244 - -	112 308	653 339 - -	1 286 551 	1 984 219	36 929 - -
Administrative records ⁴	9	4	9	575	6	10	315	1 676	4 164	5 840	497

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital
		estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
325192	Cyclic crude and intermediate manufacturing	39	6 294	418 820	3 788	8 315	233 369	1 228 130	3 158 017	4 511 736	186 178
3251921 3251924	Cyclic (coal tar) intermediates Tar, tar crudes, and tar pitches	23 8	6 009 229	406 595 9 861	3 579 174	7 917 319	225 183 6 834	1 163 307 57 839	3 068 544 83 270	4 357 333 141 256	179 561 5 916

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Products Statistics: 2002 and 1997 Table 6a.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product shipments		
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
325192	Cyclic crude and intermediate manufacturing	N N	X	X	7 188 232 9 815 911	
3251921	Cyclic (coal tar) intermediates	N	X	X	6 519 513	
32519211	1997 Cyclic (coal tar) intermediates	N N	ŝ	X	8 905 865 6 519 513	
3251921100	1997	N 37 54	X X X	X X X	8 905 865 6 519 513 8 905 865	
3251924	Tar, tar crudes, and tar pitches	N	X	X	650 472	
32519241	1997	N N	X	X	877 303 650 472	
3251924100	1997 Tar, tar crudes, and tar pitches	N 10 12	X X X	X X X	877 303 650 472 877 303	
325192W	Cyclic crude and intermediate manufacturing, nsk, total	N	X	X	18 247	
325192WY	1997 Cyclic crude and intermediate manufacturing, nsk, total	N N N	X X X	X X X	32 743 18 247 32 743	
325192WYWW	Cyclic crude and intermediate manufacturing, nsk, for nonadministrative-record establishments	N N	X	X	12 486 18 533	
325192WYWY	Cyclic crude and intermediate manufacturing, nsk, for administrative-record establishments	N N	X	X	5 761 14 210	

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
325192	Cyclic crude and intermediate manufacturing		
00900001	Total materials	X	2 848 507
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄)	X D	N D
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃)	718.0 D 130.1	15 589 D 24 301
32518103	Chlorine (100 percent Cl basis)	733.5 P365.5	105 637 80 372
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH)	163.9 122.5	25 865 27 360
32500071	All other industrial inorganic chemicals	X	D 30 524
32512001	Acetylene and other industrial gases (argon, carbon dioxide, nitrogen, etc.), compressed and		
	liquified	X	40 950 19 100
32519213	Toluene and xylene (100 percent basis)	D D	D D
32411013	Benzol (benzene) (100 percent C_6H_6)	D 1 899.0	D 310 801
32519223	Tar, crude	P39.5 S	148 919 129 681
32519233	Other cyclic crudes and intermediates	D 56.7	D 205 588
325100A5	All other miscellaneous synthetic organic chemicals	X X	41 120 223 489
21111013	Natural gas used as a raw material	S 8.3	6 274 19 109
32411033	Ethylene used as a raw material or feedstock	D 747.2	D 174 649
32411035	Propane used as a raw material or feedstock	D D	D D
32411037	Propylene used as a raw material or feedstock	D D	D
00190012	Other hydrocarbons used as raw materials or feedstocks	X X	D D D
33300015	Parts and attachments for machinery and equipment	X X	7 497 18 471
33240000	Metal containers	X	10 326 6 069
00970099	All other materials and components, parts, containers, and supplies	x x	874 700 N
00971000	Materials, ingredients, containers, and supplies, nsk20021997	X X	97 426 19 598

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.